

G:  
Helmer

1600

## RAW SEQUENCE LISTING

DATE: 10/31/2002

PATENT APPLICATION: US/09/622,500B

TIME: 16:54:09

Input Set : A:\615.1.TXT

Output Set: N:\CRF4\10312002\I622500B.raw

4 <110> APPLICANT: Padidam, Malla  
 5 Beachy, Roger  
 6 Fauquet, Claude  
 8 <120> TITLE OF INVENTION: Resistance in plants to infection by  
 9 ssDNA virus using inoviridae virus ssDNA-binding protein,  
 10 compositions and methods of use.  
 13 <130> FILE REFERENCE: TSRI 615.1  
 15 <140> CURRENT APPLICATION NUMBER: 09/622,500B  
 16 <141> CURRENT FILING DATE: 2000-08-17  
 18 <150> PRIOR APPLICATION NUMBER: PCT US99/04716  
 19 <151> PRIOR FILING DATE: 1999-03-03  
 21 <150> PRIOR APPLICATION NUMBER: US 60/076,627  
 22 <151> PRIOR FILING DATE: 1998-03-03  
 24 <160> NUMBER OF SEQ ID NOS: 9  
 26 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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 29 <211> LENGTH: 87  
 30 <212> TYPE: PRT  
 31 <213> ORGANISM: Inovirus coliphage M13  
 33 <400> SEQUENCE: 1  
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 37 20 25 30  
 38 Cys Tyr Val Asp Leu Gly Asn Glu Tyr Pro Val Leu Val Lys Ile Thr  
 39 35 40 45  
 40 Leu Asp Glu Gly Gln Pro Ala Tyr Ala Pro Gly Leu Tyr Thr Val His  
 41 50 55 60  
 42 Leu Ser Ser Phe Lys Val Gly Gln Phe Gly Ser Leu Met Ile Asp Arg  
 43 65 70 75 80  
 44 Leu Arg Leu Val Pro Ala Lys  
 45 85  
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 49 <211> LENGTH: 264  
 50 <212> TYPE: DNA  
 51 <213> ORGANISM: Inovirus coliphage M13  
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 56 tatccgggttc ttgtcaagat tactcttgat gaaggtcagc cagcctatgc gcctgggtctg 180  
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 60 <210> SEQ ID NO: 3

ENTERED

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62 <212> TYPE: DNA
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65 <220> FEATURE:
66 <223> OTHER INFORMATION: Synthetic
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71 taccctgtgc tggatgaagat caccctggac gagggccagc ccgcctacgc ccccgccctg 180
72 tacaccgtgc acctgagcag cttcaaggtc ggccagttcg gcagcctgat gatcgaccgc 240
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76 <211> LENGTH: 2739
77 <212> TYPE: DNA
78 <213> ORGANISM: Begomovirus tomato leaf curl virus
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90 tattggcaaa gtcattgtgtg ttagtgatgt taccgagga actggactca cacatcgctg 600
91 agggaagcga ttctgtgtga aatctgtcta tgtgctggga aagatatgga tggatgaaaa 660
92 catcaagaca aaaaaccata ctaacagtgat catgtttttt ctggttcgtg accgtcgtcc 720
93 tacaggatct ccccgaggatt tcggggaagt gtttaatatg tttgacaatg aaccgagcac 780
94 agcaacggtg aagaacatgc atcgtgatcg ttatcaagtc ttacggaagt ggcattgcgac 840
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96 taataattat gttgtttata atcaacaaga ggccggcaag tatgagaatc atactgaaaa 960
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110 ttgctttggc agtcacgctg ggcccccatg aattctttta agtgcttttag atagtgggga 1800
111 tcaacgtcat caatgacgtt gtaccaggca tcattgctat agacctttgg gctcagatca 1860
112 agatgtccac acaagtaatt gtgtggtcct aagcaccgag cccacatcgt tttgcccgtc 1920
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116 ttgtgaaact gcagaacgta atcttttggg gctaattcct ttaatactct caaagcatcg 2160
117 tctttatttc cgtgtttaat cgcctgggca tatgcatcgt tcgccgtttg ttgaccacca 2220
118 cgggcagatc gtccatcgat ctggaaaaca cccattctta gaacgtctcc atctttggcg 2280
119 atgtagtttt tgacgtccga cgctgattta gctccctgaa tgttcggatg gaaatgtgct 2340
120 gaccgacttg gggaaaccaa gtcgaagaat ctgttatttt tgcactggaa tttcccttcg 2400
121 aattggatga gaacatggat atgcggagac ccatcttcgt gaagctctct acagatcttg 2460
122 atgaatttct tcttcgtcgg ggtttctagg gtttgcaatt gggagagtgc ctcttcttta 2520
123 gttagagagc actttggata tgtgaggaaa tagtttttgg catttactct aaaacgacgt 2580
124 ggcgaagcca taaaacttgt cgttttgatt cggcgtccct caacttatct atatgattgg 2640
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163 tccctagcat cttacagaag tgtaccccat tcacgacgtt tgtgttctcc actcggattt 1800
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167 attccagaac tacgtgatct attttcatgc atctattcct caactggcta agcttctgct 2040
168 cgaacatgga tggaaatgac aaggtaactt ctgcagcacc gtttgtgaga gcgtactcaa 2100
169 cgcgctcaga ttgaatatac ccacctactc ccatacccat accatcattt cctattgaca 2160
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177 cttatctata taattggtgt ctggagtcct atatatagg aagacaccat atggcattat 2640
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185 &lt;220&gt; FEATURE:

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243 &lt;213&gt; ORGANISM: Artificial Sequence

245 &lt;220&gt; FEATURE:

246 &lt;223&gt; OTHER INFORMATION: Synthesized

248 &lt;400&gt; SEQUENCE: 7

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250 1 5 10 15

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255 &lt;212&gt; TYPE: PRT

256 &lt;213&gt; ORGANISM: Artificial Sequence

258 &lt;220&gt; FEATURE:

259 &lt;223&gt; OTHER INFORMATION: Synthesized

261 &lt;400&gt; SEQUENCE: 8

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263 1 5

266 &lt;210&gt; SEQ ID NO: 9

267 &lt;211&gt; LENGTH: 11

268 &lt;212&gt; TYPE: PRT

269 &lt;213&gt; ORGANISM: Artificial Sequence

271 &lt;220&gt; FEATURE:

272 &lt;223&gt; OTHER INFORMATION: Synthesized

274 &lt;400&gt; SEQUENCE: 9

275 Met Ala Ser Met Thr Gly Gly Gln Gln Met Gly

276 1 5 10

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